

## ABSTRACT OF THE INVENTION

[0069] A method and system suitable for automated adjustment of information represented in the transaction order records from clinical information systems of hospitals, clinics, and emergency rooms, in such a manner as to accurately reflect differences in access to care. Techniques from statistical processing are combined in a method that allows for optimization of the parameters such that statistical hypothesis testing using conventional parametric tests are valid and feasible, on account of close approximation to Gaussian normal distribution. The method and system is designed so as to be robust against wide variations in population density and transportation infrastructure, as reflects remote, rural, suburban, and metropolitan environments. Once optimized, the method and system can achieve reliable performance with regard to longitudinal measurement of health access indicators, which are used in planning and managing health services. The performance of this method and system is superior to predicate methods known to those skilled in the art.